ELSEVIER

Surface Science 381 (1997) 211–213

surface science

Author index

Abukawa, T., see Yeom 381 (1997) L533
Aizawa, T., W. Hayami, R. Souda, S. Otani and Y. Ishizawa, Hydrogen adsorption on transition-metal carbide (111) surfaces 381 (1997) 157
Allenspach, R., A. Bischof and U. Dürig, Cu adsorption on Co films: edge decoration versus intermixing 381 (1997) L573

Baberschke, K., see Stindtmann 381 (1997) 12
Bando, H., Y. Miyahara, H. Enomoto and H. Ozaki, Scanning tunneling microscopy investigations of single-q charge density wave state in hafnium-doped tantalum disulfide 381 (1997) L609
Barbieri, A., see Materer 381 (1997) 190
Barthel, J., see Klaua 381 (1997) 106
Benabid, L., see Stindtmann 381 (1997) 12
Benakki, M., see Bouzar 381 (1997) 117
Benedek, G., A. Glebov, W. Silvestri, J.G. Skofronick and J.P. Toennies, Evidence for a deep bound-state level in the ^{4}He-NaCl(001) potential 381 (1997) L540
Berndt, W., see Moré 381 (1997) L589
Bertrand, P., see Delcorte 381 (1997) 18
Biesecker, J.P., see Wang 381 (1997) 142
Bischof, A., see Allenspach 381 (1997) L573
Bonzel, H.P., see Scheuch 381 (1997) L546
Bouzar, H., M. Benakki, M. Zemirli, A. Mokrani, C. Demangeat and H. Dreyssé, Surface-induced antiparallel coupling at the surface of a B2-ordered FeCr alloy 381 (1997) 117
Bradshaw, A.M., see Moré 381 (1997) L589
Brena, B., see Polčik 381 (1997) L568
Bukhtiyarov, V.I., A.F. Carley, L.A. Dollard and M.W. Roberts, XPS study of oxygen adsorption on supported silver: effect of particle size 381 (1997) L605
Bunk, O., see Seehofer 381 (1997) L614
Busse, H., J. Kandler, B. Eltester, K. Wandelt, G.R. Castro, J.J. Hinarejos, P. Segovia, J. Chrost, E.G. Michel and R. Miranda, Metastable iron silicide phase stabilized by surface segregation on $Fe_3Si(100)$ 381 (1997) 133

Carley, A.F., see Bukhtiyarov 381 (1997) L605
Carter, E.A., see da Silva 381 (1997) L628
Castro, G.R., see Busse 381 (1997) 133
Celio, H., P. Mills, D. Jentz and M. Trenary, The influence of hydrogen on the aggregation of aminomethylidyne on Pt(111) 381 (1997) 65
Cha, C.Y., B.Y. Han and J.H. Weaver, Pulsed-laser-induced etching of Br–GaAs(110) 381 (1997) L636
Chesnau, J., see Louwsma 381 (1997) L594
Chrost, J., see Busse 381 (1997) 133
Collazo, C., see Gilmore 381 (1997) 77
Comelli, G., see Polčik 381 (1997) L568
Cowin, J.P., see Wang 381 (1997) 142

Da Silva, A.J.R., M.R. Radeke and E.A. Carter, Ab initio molecular dynamics of H_2 desorption from Si(100)-2 × 1 381 (1997) L628
Delcorte, A., B.G. Segda and P. Bertrand, ToF-SIMS analyses of polystyrene and dibenzanthracene: evidence for fragmentation and metastable decay processes in molecular secondary ion emission 381 (1997) 18
Demangeat, C., see Bouzar 381 (1997) 117
Dollard, L.A., see Bukhtiyarov 381 (1997) L605
Dreyssé, H., see Bouzar 381 (1997) 117
Dürig, U., see Allenspach 381 (1997) L573

Ellison, G.B., see Wang 381 (1997) 142
Eltester, B., see Busse 381 (1997) 133
Enomoto, H., see Bando 381 (1997) L609

Falkenberg, G., see Seehofer 381 (1997) L614
Farle, M., see Stindtmann 381 (1997) 12
Feidenhans'l, R., see Seehofer 381 (1997) L614
Frischat, H., see Larsson 381 (1997) 123
Fukutani, H., see Yeom 381 (1997) L533

Gilarowski, G., see Over 381 (1997) L619
Gilmore, C.J., L.D. Marks, D. Grozea, C. Collazo, E. Landree and R.D. Twesten, Direct solutions of the Si(111) 7 × 7 structure 381 (1997) 77
Glebov, A., see Benedek 381 (1997) L540
Gomer, R., see Uebing 381 (1997) 33
Grozea, D., see Gilmore 381 (1997) 77

Haase, J., see Polčik 381 (1997) L568
Han, B.Y., see Cha 381 (1997) L636

Hayami, W., see Aizawa 381 (1997) 157
Henderson, G.S., see Sokolov 381 (1997) L558
Higashiyama, K., see Yeom 381 (1997) L533
Hinarejos, J.J., see Busse 381 (1997) 133
Höche, H., see Klaua 381 (1997) 106
Hosoi, S., see Yeom 381 (1997) L533

Iedema, M.J., see Wang 381 (1997) 142
Ishii, H., see Omori 381 (1997) 165
Ishizawa, Y., see Aizawa 381 (1997) 157
Iwabuchi, M., see Yeom 381 (1997) L533

Jaffe, J.E. and P. Zapol, Atomic relaxation of the BeO ($10\bar{1}0$) surface 381 (1997) L563
Jenniches, H., see Klaua 381 (1997) 106
Jensen, K.F., see Shekhar 381 (1997) L581
Jentz, D., see Celio 381 (1997) 65
Johnson, R.L., see Seehofer 381 (1997) L614
Jürgens, D., C. Schwennicke and H. Pfnür, Surface structure analysis of the domain-wall phase of S/Ru(0001) using an efficient parameter optimization method 381 (1997) 174

Kandler, J., see Busse 381 (1997) 133
Kersten, B.A.G., see Louwsma 381 (1997) L594
Kevan, S.D., see Wei 381 (1997) 49
Kischner, J., see Klaua 381 (1997) 106
Klaua, M., H. Höche, H. Jenniches, J. Barthel and J. Kischner, Strain-driven formation of two-dimensional holes on Cu(111) after the deposition of Fe 381 (1997) 106
Kono, S., see Yeom 381 (1997) L533
Kroes, G.-J., see Materer 381 (1997) 190

Landemark, E., see Seehofer 381 (1997) L614
Landree, E., see Gilmore 381 (1997) 77
Larsson, M.I., H. Frischat, J. Wollschläger and M.C. Tringides, Properties of kinks in vicinal face-centered cubic (111) surfaces 381 (1997) 123
Leibsle, F.M., see Partridge 381 (1997) 92
Lottermoser, L., see Seehofer 381 (1997) L614
Louwsma, H.K., H.J.W. Zandvliet, B.A.G. Kersten, J. Chesnau, A. van Silfhout and B. Poelsema, Strain relaxation induced 1-dimensional and 0-dimensional structures: Bi on Ge(001) 381 (1997) L594

Marks, L.D., see Gilmore 381 (1997) 77
Materer, N., U. Starke, A. Barbieri, M.A. Van Hove, G.A. Somorjai, G.-J. Kroes and C. Minot, Molecular surface structure of ice(0001): dynamical low-energy electron diffraction, total-energy calculations and molecular dynamics simulations 381 (1997) 190
Merikoski, J. and S.C. Ying, Collective diffusion on a stepped substrate 381 (1997) L623
Meyerheim, H.L., H. Zajonz, W. Moritz and I.K. Robinson, Surface alloying and dealloying in Bi/Cu(001) at low coverage 381 (1997) L551
Michel, E.G., see Busse 381 (1997) 133
Mills, P., see Celio 381 (1997) 65
Minot, C., see Materer 381 (1997) 190
Miranda, R., see Busse 381 (1997) 133
Miyahara, Y., see Bando 381 (1997) L609
Mokrani, A., see Bouzar 381 (1997) 117
Moré, S., W. Berndt, C. Stampfl and A.M. Bradshaw, A new LEED investigation of the Cu(110)-(2 × 3)N structure 381 (1997) L589
Moritz, W., see Meyerheim 381 (1997) L551

Nakamura, M., see Yeom 381 (1997) L533
Niehus, H., see Over 381 (1997) L619
Nielsen, M., see Seehofer 381 (1997) L614
Nihei, Y., see Omori 381 (1997) 165

Omori, S., H. Ishii and Y. Nihei, Photoelectron diffraction studies on the structure of sulfur-passivated InP(100) and CaF_2 layers grown on S/InP(100) 381 (1997) 165
Otani, S., see Aizawa 381 (1997) 157
Over, H., G. Gilarowski and H. Niehus, The composition and structure of $Cu_3Au(110)$-(4 × 1): a low-energy electron diffraction analysis 381 (1997) L619
Ozaki, H., see Bando 381 (1997) L609

Paolucci, G., see Polčik 381 (1997) L568
Partridge, A., G.J. Tatlock and F.M. Leibsle, A study of the oxidation of the sulphur passivated Ni(100) surface by STM 381 (1997) 92
Pfnür, H., see Jürgens 381 (1997) 174
Poelsema, B., see Louwsma 381 (1997) L594
Polčik, M., L. Wilde, J. Haase, B. Brena, G. Comelli and G. Paolucci, High-resolution XPS and NEXAFS study of SO_2 adsorption on Pt(111): two surface SO_2 species 381 (1997) L568

Radeke, M.R., see da Silva 381 (1997) L628
Rahman, T.S., see Stindtmann 381 (1997) 12
Ranke, W. and Y.R. Xing, Kinetics of dissociative water adsorption on stepped Si(001), on Si(115), Si(113), Si(5, 5, 12) and Si(112) 381 (1997) 1
Roberts, M.W., see Bukhtiyarov 381 (1997) L605
Robinson, I.K., see Meyerheim 381 (1997) L551

Sales, J.L., see Zhdanov 381 (1997) L599
Sasaki, M., see Yeom 381 (1997) L533
Sato, S., see Yeom 381 (1997) L533
Scheuch, V., B. Voigtländer and H.P. Bonzel, Surfactant-mediated growth of $CoSi_2$ on Si(100) 381 (1997) L546
Schwennicke, C., see Jürgens 381 (1997) 174
Seehofer, L., O. Bunk, G. Falkenberg, L. Lottermoser, R. Feidenhans'l, E. Landemark, M. Nielsen and R.L. Johnson, Atomic structure of a stable high-index Ge surface: Ge(103)-(4 × 1) 381 (1997) L614
Segda, B.G., see Delcorte 381 (1997) 18
Segovia, P., see Busse 381 (1997) 133
Shekhar, R. and K.F. Jensen, Temperature programmed desorption investigations of hydrogen and ammonia reactions on GaN 381 (1997) L581

Silvestri, W., see Benedek 381 (1997) L540
Skelton, D.C., see Wei 381 (1997) 49
Skofronick, J.G., see Benedek 381 (1997) L540
Sokolov, I.Yu., G.S. Henderson and F.J. Wicks, The contrast mechanism for true atomic resolution by AFM in non-contact mode: quasi-non-contact mode? 381 (1997) L558
Somorjai, G.A., see Materer 381 (1997) 190
Souda, R., see Aizawa 381 (1997) 157
Stampfl, C., see Moré 381 (1997) L589
Starke, U., see Materer 381 (1997) 190
Stindtmann, M., M. Farle, T.S. Rahman, L. Benabid and K. Baberschke, Growth and morphology of Ni(111)/Re(0001) ultrathin films: an in-situ study using scanning tunneling microscopy 381 (1997) 12
Suzuki, S., see Yeom 381 (1997) L533

Tatlock, G.J., see Partridge 381 (1997) 92
Toennies, J.P., see Benedek 381 (1997) L540
Trenary, M., see Celio 381 (1997) 65
Tringides, M.C., see Larsson 381 (1997) 123
Twesten, R.D., see Gilmore 381 (1997) 77

Uebing, C. and R. Gomer, The diffusion of oxygen on W(110): the influence of the p(2 × 1) ordering 381 (1997) 33
Uñac, R.O., see Zhdanov 381 (1997) L599

Van Hove, M.A., see Materer 381 (1997) 190
van Silfhout, A., see Louwsma 381 (1997) L594
Voigtländer, B., see Scheuch 381 (1997) L546

Wandelt, K., see Busse 381 (1997) 133
Wang, H., J.P. Biesecker, M.J. Iedema, G.B. Ellison and J.P. Cowin, Low-energy deposition and collision-induced dissociation of water ions on Pt(111) 381 (1997) 142
Weaver, J.H., see Cha 381 (1997) L636
Wei, D.H., D.C. Skelton and S.D. Kevan, Desorption and molecular interactions on surfaces: CO/Rh(110), CO/Rh(100) and CO/Rh(111) 381 (1997) 49
Wicks, F.J., see Sokolov 381 (1997) L558
Wilde, L., see Polčik 381 (1997) L568
Wollschläger, J., see Larsson 381 (1997) 123

Xing, Y.R., see Ranke 381 (1997) 1

Yeom, H.W., M. Sasaki, S. Suzuki, S. Sato, S. Hosoi, M. Iwabuchi, K. Higashiyama, H. Fukutani, M. Nakamura, T. Abukawa and S. Kono, Existence of a stable intermixing phase for monolayer Ge on Si(001) 381 (1997) L533
Ying, S.C., see Merikoski 381 (1997) L623

Zajonz, H., see Meyerheim 381 (1997) L551
Zandvliet, H.J.W., see Louwsma 381 (1997) L594
Zapol, P., see Jaffe 381 (1997) L563
Zemirli, M., see Bouzar 381 (1997) 117
Zhdanov, V.P., J.L. Sales and R.O. Uñac, Simulations of the order–disorder phase transition and thermal desorption on a square lattice beyond the lattice-gas approximation 381 (1997) L599

ELSEVIER

Surface Science 381 (1997) 214–218

surface science

Subject index

THEORETICAL METHODS, MODELS AND TECHNIQUES

Ab initio quantum chemical methods and calculations

J.E. Jaffe and P. Zapol, Atomic relaxation of the BeO (10$\bar{1}$0) surface 381 (1997) L563

A.J.R. da Silva, M.R. Radeke and E.A. Carter, Ab initio molecular dynamics of H_2 desorption from Si(100)-2 × 1 381 (1997) L628

N. Materer, U. Starke, A. Barbieri, M.A. van Hove, G.A. Somorjai, G.-J. Kroes and C. Minot, Molecular surface structure of ice(0001): dynamical low-energy electron diffraction, total-energy calculations and molecular dynamics simulations 381 (1997) 190

Atom–solid interactions, scattering, diffraction

G. Benedek, A. Glebov, W. Silvestri, J.G. Skofronick and J.P. Toennies, Evidence for a deep bound-state level in the ^{4}He-NaCl(001) potential 381 (1997) L540

I.Yu. Sokolov, G.S. Henderson and F.J. Wicks, The contrast mechanism for true atomic resolution by AFM in non-contact mode: quasi-non-contact mode? 381 (1997) L558

Computer simulations

I.Yu. Sokolov, G.S. Henderson and F.J. Wicks, The contrast mechanism for true atomic resolution by AFM in non-contact mode: quasi-non-contact mode? 381 (1997) L558

C. Uebing and R. Gomer, The diffusion of oxygen on W(110): the influence of the p(2 × 1) ordering 381 (1997) 33

M.I. Larsson, H. Frischat, J. Wollschläger and M.C. Tringides, Properties of kinks in vicinal face-centered cubic (111) surfaces 381 (1997) 123

Electron–solid interactions, scattering, diffraction

C.J. Gilmore, L.D. Marks, D. Grozea, C. Collazo, E. Landree and R.D. Twesten, Direct solutions of the Si(111) 7 × 7 structure 381 (1997) 77

S. Omori, H. Ishii and Y. Nihei, Photoelectron diffraction studies on the structure of sulfur-passivated InP(100) and CaF_2 layers grown on S/InP(100) 381 (1997) 165

N. Materer, U. Starke, A. Barbieri, M.A. van Hove, G.A. Somorjai, G.-J. Kroes and C. Minot, Molecular surface structure of ice(0001): dynamical low-energy electron diffraction, total-energy calculations and molecular dynamics simulations 381 (1997) 190

Ion–solid interactions, scattering, channeling

H. Wang, J.P. Biesecker, M.J. Iedema, G.B. Ellison and J.P. Cowin, Low-energy deposition and collision-induced dissociation of water ions on Pt(111) 381 (1997) 142

Models of surface chemical reactions

A.J.R. da Silva, M.R. Radeke and E.A. Carter, Ab initio molecular dynamics of H_2 desorption from Si(100)-2 × 1 381 (1997) L628

Models of surface kinetics

J. Merikoski and S.C. Ying, Collective diffusion on a stepped substrate 381 (1997) L623

M.I. Larsson, H. Frischat, J. Wollschläger and M.C. Tringides, Properties of kinks in vicinal face-centered cubic (111) surfaces 381 (1997) 123

Molecular dynamics

A.J.R. da Silva, M.R. Radeke and E.A. Carter, Ab initio molecular dynamics of H_2 desorption from Si(100)-2 × 1 381 (1997) L628

N. Materer, U. Starke, A. Barbieri, M.A. van Hove, G.A. Somorjai, G.-J. Kroes and C. Minot, Molecular surface structure of ice(0001): dynamical low-energy electron diffraction, total-energy calculations and molecular dynamics simulations 381 (1997) 190

EXPERIMENTAL SAMPLE PREPARATION AND CHARACTERIZATION METHODS

Atomic force microscopy

I.Yu. Sokolov, G.S. Henderson and F.J. Wicks, The contrast mechanism for true atomic resolution by AFM in non-contact mode: quasi-non-contact mode? 381 (1997) L558

Auger electron spectroscopy

N. Materer, U. Starke, A. Barbieri, M.A. van Hove, G.A. Somorjai, G.-J. Kroes and C. Minot, Molecular surface structure of ice(0001): dynamical low-energy electron diffraction, total-energy calculations and molecular dynamics simulations 381 (1997) 190

Electron energy loss spectroscopy

D.H. Wei, D.C. Skelton and S.D. Kevan, Desorption and molecular interactions on surfaces: CO/Rh(110), CO/Rh(100) and CO/Rh(111) 381 (1997) 49

T. Aizawa, W. Hayami, R. Souda, S. Otani and Y. Ishizawa, Hydrogen adsorption on transition-metal carbide (111) surfaces 381 (1997) 157

Electron–solid diffraction

Auger electron diffraction

H.W. Yeom, M. Sasaki, S. Suzuki, S. Sato, S. Hosoi, M. Iwabuchi, K. Higashiyama, H. Fukutani, M. Nakamura, T. Abukawa and S. Kono, Existence of a stable intermixing phase for monolayer Ge on Si(001) 381 (1997) L533

Low energy electron diffraction (LEED)

H.W. Yeom, M. Sasaki, S. Suzuki, S. Sato, S. Hosoi, M. Iwabuchi, K. Higashiyama, H. Fukutani, M. Nakamura, T. Abukawa and S. Kono, Existence of a stable intermixing phase for monolayer Ge on Si(001) 381 (1997) L533

W. Ranke and Y.R. Xing, Kinetics of dissociative water adsorption on stepped Si(001), on Si(115), Si(113), Si(5, 5, 12) and Si(112) 381 (1997) 1

S. Morè, W. Berndt, C. Stampfl and A.M. Bradshaw, A new LEED investigation of the Cu(110)-(2 × 3)N structure 381 (1997) L589

L. Seehofer, O. Bunk, G. Falkenberg, L. Lottermoser, R. Feidenhans'l, E. Landemark, M. Nielsen and R.L. Johnson, Atomic structure of a stable high-index Ge surface: Ge(103)-(4 × 1) 381 (1997) L614

H. Over, G. Gilarowski and H. Niehus, The composition and structure of $Cu_3Au(110)$-(4 × 1): a low-energy electron diffraction analysis 381 (1997) L619

A. Partridge, G.J. Tatlock and F.M. Leibsle, A study of the oxidation of the sulphur passivated Ni(100) surface by STM 381 (1997) 92

H. Busse, J. Kandler, B. Eltester, K. Wandelt, G.R. Castro, J.J. Hinarejos, P. Segovia, J. Chrost, E.G. Michel and R. Miranda, Metastable iron silicide phase stabilized by surface segregation on $Fe_3Si(100)$ 381 (1997) 133

N. Materer, U. Starke, A. Barbieri, M.A. van Hove, G.A. Somorjai, G.-J. Kroes and C. Minot, Molecular surface structure of ice(0001): dynamical low-energy electron diffraction, total-energy calculations and molecular dynamics simulations 381 (1997) 190

Photoelectron diffraction

S. Omori, H. Ishii and Y. Nihei, Photoelectron diffraction studies on the structure of sulfur-passivated InP(100) and CaF_2 layers grown on S/InP(100) 381 (1997) 165

Transmission high-energy electron diffraction

C.J. Gilmore, L.D. Marks, D. Grozea, C. Collazo, E. Landree and R.D. Twesten, Direct solutions of the Si(111) 7 × 7 structure 381 (1997) 77

Laser methods

Laser induced thermal desorption (LITD)

C.Y. Cha, B.Y. Han and J.H. Weaver, Pulsed-laser-induced etching of Br–GaAs(110) 381 (1997) L636

Molecular beam epitaxy

M. Klaua, H. Höche, H. Jenniches, J. Barthel and J. Kischner, Strain-driven formation of two-dimensional holes on Cu(111) after the deposition of Fe 381 (1997) 106

Photoelectron spectroscopy

Soft X-ray photoelectron spectroscopy (using synchrotron radiation)

H.W. Yeom, M. Sasaki, S. Suzuki, S. Sato, S. Hosoi, M. Iwabuchi, K. Higashiyama, H. Fukutani, M. Nakamura, T. Abukawa and S. Kono, Existence of a stable intermixing phase for monolayer Ge on Si(001) 381 (1997) L533

M. Polčik, L. Wilde, J. Haase, B. Brena, G. Comelli and G. Paolucci, High-resolution XPS and NEXAFS study of SO_2 adsorption on Pt(111): two surface SO_2 species 381 (1997) L568

V.I. Bukhtiyarov, A.F. Carley, L.A. Dollard and M.W. Roberts, XPS study of oxygen adsorption on supported silver: effect of particle size 381 (1997) L605

Visible and ultraviolet photoelectron spectroscopy

W. Ranke and Y.R. Xing, Kinetics of dissociative water adsorption on stepped Si(001), on Si(115), Si(113), Si(5, 5, 12) and Si(112) 381 (1997) 1

H. Busse, J. Kandler, B. Eltester, K. Wandelt, G.R. Castro, J.J. Hinarejos, P. Segovia, J. Chrost, E.G. Michel and R. Miranda, Metastable iron silicide phase stabilized by surface segregation on $Fe_3Si(100)$ 381 (1997) 133

X-ray photoelectron spectroscopy

H. Busse, J. Kandler, B. Eltester, K. Wandelt, G.R. Castro, J.J. Hinarejos, P. Segovia, J. Chrost, E.G. Michel and R. Miranda, Metastable iron silicide phase stabilized by surface segregation on $Fe_3Si(100)$ 381 (1997) 133

Photon absorption spectroscopy

Infrared absorption spectroscopy

H. Celio, P. Mills, D. Jentz and M. Trenary, The influence of hydrogen on the aggregation of aminomethylidyne on Pt(111) 381 (1997) 65

Near edge extended X-ray absorption fine structure (NEXAFS)

M. Polčik, L. Wilde, J. Haase, B. Brena, G. Comelli and G. Paolucci, High-resolution XPS and NEXAFS study of SO_2 adsorption on Pt(111): two surface SO_2 species 381 (1997) L568

Scanning tunneling microscopy

V. Scheuch, B. Voigtländer and H.P. Bonzel, Surfactant-mediated growth of $CoSi_2$ on Si(100) 381 (1997) L546

R. Allenspach, A. Bischof and U. Dürig, Cu adsorption on Co films: edge decoration versus intermixing 381 (1997) L573
M. Stindtmann, M. Farle, T.S. Rahman, L. Benabid and K. Baberschke, Growth and morphology of Ni(111)/Re(0001) ultrathin films: an in-situ study using scanning tunneling microscopy 381 (1997) 12
H.K. Louwsma, H.J.W. Zandvliet, B.A.G. Kersten, J. Chesnau, A. van Silfhout and B. Poelsema, Strain relaxation induced 1-dimensional and 0-dimensional structures: Bi on Ge(001) 381 (1997) L594
H. Bando, Y. Miyahara, H. Enomoto and H. Ozaki, Scanning tunneling microscopy investigation of single-q charge density wave state in hafnium-doped tantalum disulfide 381 (1997) L609
L. Seehofer, O. Bunk, G. Falkenberg, L. Lottermoser, R. Feidenhans'l, E. Landemark, M. Nielsen and R.L. Johnson, Atomic structure of a stable high-index Ge surface: Ge(103)-(4 × 1) 381 (1997) L614
A. Partridge, G.J. Tatlock and F.M. Leibsle, A study of the oxidation of the sulphur passivated Ni(100) surface by STM 381 (1997) 92
M. Klaua, H. Höche, H. Jenniches, J. Barthel and J. Kischner, Strain-driven formation of two-dimensional holes on Cu(111) after the deposition of Fe 381 (1997) 106

Scanning tunneling spectroscopies

C.Y. Cha, B.Y. Han and J.H. Weaver, Pulsed-laser-induced etching of Br–GaAs(110) 381 (1997) L636

Secondary ion mass spectroscopy

A. Delcorte, B.G. Segda and P. Bertrand, ToF-SIMS analyses of polystyrene and dibenzanthracene: evidence for fragmentation and metastable decay processes in molecular secondary ion emission 381 (1997) 18

Thermal desorption spectroscopy

H. Celio, P. Mills, D. Jentz and M. Trenary, The influence of hydrogen on the aggregation of aminomethylidyne on Pt(111) 381 (1997) 65

X-ray scattering, diffraction, and reflection

H.L. Meyerheim, H. Zajonz, W. Moritz and I.K. Robinson, Surface alloying and dealloying in Bi/Cu(001) at low coverage 381 (1997) L551
L. Seehofer, O. Bunk, G. Falkenberg, L. Lottermoser, R. Feidenhans'l, E. Landemark, M. Nielsen and R.L. Johnson, Atomic structure of a stable high-index Ge surface: Ge(103)-(4 × 1) 381 (1997) L614

PHENOMENA

Adsorption kinetics

W. Ranke and Y.R. Xing, Kinetics of dissociative water adsorption on stepped Si(001), on Si(115), Si(113), Si(5, 5, 12) and Si(112) 381 (1997) 1

Atom–solid interactions

G. Benedek, A. Glebov, W. Silvestri, J.G. Skofronick and J.P. Toennies, Evidence for a deep bound-state level in the ^{4}He-NaCl(001) potential 381 (1997) L540

Chemisorption

M. Polčik, L. Wilde, J. Haase, B. Brena, G. Comelli and G. Paolucci, High-resolution XPS and NEXAFS study of SO_2 adsorption on Pt(111): two surface SO_2 species 381 (1997) L568
D.H. Wei, D.C. Skelton and S.D. Kevan, Desorption and molecular interactions on surfaces: CO/Rh(110), CO/Rh(100) and CO/Rh(111) 381 (1997) 49
H. Celio, P. Mills, D. Jentz and M. Trenary, The influence of hydrogen on the aggregation of aminomethylidyne on Pt(111) 381 (1997) 65
S. Moré, W. Berndt, C. Stampfl and A.M. Bradshaw, A new LEED investigation of the Cu(110)-(2 × 3)N structure 381 (1997) L589
V.I. Bukhtiyarov, A.F. Carley, L.A. Dollard and M.W. Roberts, XPS study of oxygen adsorption on supported silver: effect of particle size 381 (1997) L605
C.Y. Cha, B.Y. Han and J.H. Weaver, Pulsed-laser-induced etching of Br–GaAs(110) 381 (1997) L636
T. Aizawa, W. Hayami, R. Souda, S. Otani and Y. Ishizawa, Hydrogen adsorption on transition-metal carbide (111) surfaces 381 (1997) 157

Crystallization

N. Materer, U. Starke, A. Barbieri, M.A. van Hove, G.A. Somorjai, G.-J. Kroes and C. Minot, Molecular surface structure of ice(0001): dynamical low-energy electron diffraction, total-energy calculations and molecular dynamics simulations 381 (1997) 190

Epitaxy

V. Scheuch, B. Voigtländer and H.P. Bonzel, Surfactant-mediated growth of $CoSi_2$ on Si(100) 381 (1997) L546
R. Allenspach, A. Bischof and U. Dürig, Cu adsorption on Co films: edge decoration versus intermixing 381 (1997) L573
S. Omori, H. Ishii and Y. Nihei, Photoelectron diffraction studies on the structure of sulfur-passivated InP(100) and CaF_2 layers grown on S/InP(100) 381 (1997) 165
N. Materer, U. Starke, A. Barbieri, M.A. van Hove, G.A. Somorjai, G.-J. Kroes and C. Minot, Molecular surface structure of ice(0001): dynamical low-energy electron diffraction, total-energy calculations and molecular dynamics simulations 381 (1997) 190

Etching

C.Y. Cha, B.Y. Han and J.H. Weaver, Pulsed-laser-induced etching of Br–GaAs(110) 381 (1997) L636

Growth

H.W. Yeom, M. Sasaki, S. Suzuki, S. Sato, S. Hosoi, M. Iwabuchi, K. Higashiyama, H. Fukutani, M. Nakamura, T. Abukawa and S. Kono, Existence of a stable intermixing phase for monolayer Ge on Si(001) 381 (1997) L533

V. Scheuch, B. Voigtländer and H.P. Bonzel, Surfactant-mediated growth of $CoSi_2$ on Si(100) 381 (1997) L546
M. Stindtmann, M. Farle, T.S. Rahman, L. Benabid and K. Baberschke, Growth and morphology of Ni(111)/Re(0001) ultrathin films: an in-situ study using scanning tunneling microscopy 381 (1997) 12

Ion emission

A. Delcorte, B.G. Segda and P. Bertrand, ToF-SIMS analyses of polystyrene and dibenzanthracene: evidence for fragmentation and metastable decay processes in molecular secondary ion emission 381 (1997) 18

Ion–solid interactions

H. Wang, J.P. Biesecker, M.J. Iedema, G.B. Ellison and J.P. Cowin, Low-energy deposition and collision-induced dissociation of water ions on Pt(111) 381 (1997) 142

Oxidation

A. Partridge, G.J. Tatlock and F.M. Leibsle, A study of the oxidation of the sulphur passivated Ni(100) surface by STM 381 (1997) 92

Photon stimulated desorption

C.Y. Cha, B.Y. Han and J.H. Weaver, Pulsed-laser-induced etching of Br–GaAs(110) 381 (1997) L636

Sputtering

A. Delcorte, B.G. Segda and P. Bertrand, ToF-SIMS analyses of polystyrene and dibenzanthracene: evidence for fragmentation and metastable decay processes in molecular secondary ion emission 381 (1997) 18

Sticking

H. Wang, J.P. Biesecker, M.J. Iedema, G.B. Ellison and J.P. Cowin, Low-energy deposition and collision-induced dissociation of water ions on Pt(111) 381 (1997) 142

Surface chemical reaction

C.Y. Cha, B.Y. Han and J.H. Weaver, Pulsed-laser-induced etching of Br–GaAs(110) 381 (1997) L636

Surface diffusion

C. Uebing and R. Gomer, The diffusion of oxygen on W(110): the influence of the p(2 × 1) ordering 381 (1997) 33
J. Merikoski and S.C. Ying, Collective diffusion on a stepped substrate 381 (1997) L623
C.Y. Cha, B.Y. Han and J.H. Weaver, Pulsed-laser-induced etching of Br–GaAs(110) 381 (1997) L636
M.I. Larsson, H. Frischat, J. Wollschläger and M.C. Tringides, Properties of kinks in vicinal face-centered cubic (111) surfaces 381 (1997) 123

Surface melting

N. Materer, U. Starke, A. Barbieri, M.A. van Hove, G.A. Somorjai, G.-J. Kroes and C. Minot, Molecular surface structure of ice(0001): dynamical low-energy electron diffraction, total-energy calculations and molecular dynamics simulations 381 (1997) 190

Surface relaxation and reconstruction

J.E. Jaffe and P. Zapol, Atomic relaxation of the BeO $(10\bar{1}0)$ surface 381 (1997) L563
L. Seehofer, O. Bunk, G. Falkenberg, L. Lottermoser, R. Feidenhans'l, E. Landemark, M. Nielsen and R.L. Johnson, Atomic structure of a stable high-index Ge surface: Ge(103)-(4 × 1) 381 (1997) L614
C.J. Gilmore, L.D. Marks, D. Grozea, C. Collazo, E. Landree and R.D. Twesten, Direct solutions of the Si(111) 7 × 7 structure 381 (1997) 77
H. Busse, J. Kandler, B. Eltester, K. Wandelt, G.R. Castro, J.J. Hinarejos, P. Segovia, J. Chrost, E.G. Michel and R. Miranda, Metastable iron silicide phase stabilized by surface segregation on $Fe_3Si(100)$ 381 (1997) 133
N. Materer, U. Starke, A. Barbieri, M.A. van Hove, G.A. Somorjai, G.-J. Kroes and C. Minot, Molecular surface structure of ice(0001): dynamical low-energy electron diffraction, total-energy calculations and molecular dynamics simulations 381 (1997) 190

Surface segregation

H. Busse, J. Kandler, B. Eltester, K. Wandelt, G.R. Castro, J.J. Hinarejos, P. Segovia, J. Chrost, E.G. Michel and R. Miranda, Metastable iron silicide phase stabilized by surface segregation on $Fe_3Si(100)$ 381 (1997) 133

Surface stress

H.K. Louwsma, H.J.W. Zandvliet, B.A.G. Kersten, J. Chesnau, A. van Silfhout and B. Poelsema, Strain relaxation induced 1-dimensional and 0-dimensional structures: Bi on Ge(001) 381 (1997) L594
M. Klaua, H. Höche, H. Jenniches, J. Barthel and J. Kischner, Strain-driven formation of two-dimensional holes on Cu(111) after the deposition of Fe 381 (1997) 106

Surface structure, morphology, roughness, and topography

H.L. Meyerheim, H. Zajonz, W. Moritz and I.K. Robinson, Surface alloying and dealloying in Bi/Cu(001) at low coverage 381 (1997) L551
W. Ranke and Y.R. Xing, Kinetics of dissociative water adsorption on stepped Si(001), on Si(115), Si(113), Si(5, 5, 12) and Si(112) 381 (1997) 1
H.K. Louwsma, H.J.W. Zandvliet, B.A.G. Kersten, J. Chesnau, A. van Silfhout and B. Poelsema, Strain relaxation induced 1-dimensional and 0-dimensional structures: Bi on Ge(001) 381 (1997) L594
L. Seehofer, O. Bunk, G. Falkenberg, L. Lottermoser, R. Feidenhans'l, E. Landemark, M. Nielsen and R.L. Johnson, Atomic structure of a stable high-index Ge surface: Ge(103)-(4 × 1) 381 (1997) L614
H. Over, G. Gilarowski and H. Niehus, The composition and structure of $Cu_3Au(110)$-(4 × 1): a low-energy electron diffraction analysis 381 (1997) L619

M.I. Larsson, H. Frischat, J. Wollschläger and M.C. Tringides, Properties of kinks in vicinal face-centered cubic (111) surfaces 381 (1997) 123

H. Busse, J. Kandler, B. Eltester, K. Wandelt, G.R. Castro, J.J. Hinarejos, P. Segovia, J. Chrost, E.G. Michel and R. Miranda, Metastable iron silicide phase stabilized by surface segregation on $Fe_3Si(100)$ 381 (1997) 133

D. Jürgens, C. Schwennicke and H. Pfnür, Surface structure analysis of the domain-wall phase of S/Ru(0001) using an efficient parameter optimization method 381 (1997) 174

N. Materer, U. Starke, A. Barbieri, M.A. van Hove, G.A. Somorjai, G.-J. Kroes and C. Minot, Molecular surface structure of ice(0001): dynamical low-energy electron diffraction, total-energy calculations and molecular dynamics simulations 381 (1997) 190

Surface thermodynamics (including phase transitions)

V.P. Zhdanov, J.L. Sales and R.O. Uñac, Simulations of the order–disorder phase transition and thermal desorption on a square lattice beyond the lattice-gas approximation 381 (1997) L599

Thermal desorption

R. Shekhar and K.F. Jensen, Temperature programmed desorption investigations of hydrogen and ammonia reactions on GaN 381 (1997) L581

V.P. Zhdanov, J.L. Sales and R.O. Uñac, Simulations of the order–disorder phase transition and thermal desorption on a square lattice beyond the lattice-gas approximation 381 (1997) L599

Vibrations of adsorbed molecules

H. Celio, P. Mills, D. Jentz and M. Trenary, The influence of hydrogen on the aggregation of aminomethylidyne on Pt(111) 381 (1997) 65

T. Aizawa, W. Hayami, R. Souda, S. Otani and Y. Ishizawa, Hydrogen adsorption on transition-metal carbide (111) surfaces 381 (1997) 157

N. Materer, U. Starke, A. Barbieri, M.A. van Hove, G.A. Somorjai, G.-J. Kroes and C. Minot, Molecular surface structure of ice(0001): dynamical low-energy electron diffraction, total-energy calculations and molecular dynamics simulations 381 (1997) 190